

ABSTRACT

The invention relates to a degassing centrifugal apparatus such as a pump and to a process for pumping and degassing a fluid. The apparatus has a rotatable hollow rotor connected to a stationary fluid inlet at one end and a stationary liquid outlet at the opposite end and a gas exhaust in the center thereof. The rotor has at its inlet end a bladed shovel wheel with arcuate shovels. The shovel wheel accelerates a fluid flow in said rotor inlet end and causes the fluid to rotate at a peripheral velocity higher than the peripheral velocity of said rotor inlet end. The apparatus is especially useful for pumping and degassing backwater in the production of paper or board in a paper machine.